

CLAIMS

- 1) A controlled hydrocarbon permeability composition comprising a mixture of polymer material (4) and of fillers, characterized in that fillers (5) are mineral and selected to adsorb and to trap an amount of hydrocarbons discharged through said polymer so as to reduce the permeability of said composition.
- 2) A composition as claimed in claim 1, wherein said adsorbent mineral fillers are selected from the following group : zeolite, activated charcoal, carbon nanotubes and mixtures thereof.
- 3) A composition as claimed in any one of the previous claims, wherein the polymer is selected from : polyolefins (PE, PP), polyamides, fluoropolymers, polymer alloys (PE-PA), elastomers.
- 4) A composition as claimed in any one of the previous claims, wherein the polymer material comprises permeability-reducing fillers (8) of micrometric type, such as talc, metal particles for example, or of nanometric type, such as clays for example.
- 5) A structure containing hydrocarbons, characterized in that its wall is a single layer of the composition as claimed in any one of claims 1 to 4:
- 6) A structure as claimed in claim 5, wherein at least one face of said wall is treated (6), for example by fluorination, to reduce the permeability.
- 7) A structure as claimed in any one of claims 5 or 6, made by extrusion, injection, blowing, rotational moulding or compression.

8) Application of the structure as claimed in any one of claims 5 to 7 to the manufacture of tanks for motor vehicles.

9) Application of the structure as claimed in any one of claims 5 to 7 to the manufacture of fuel lines for motor vehicles.